

isc N-Channel MOSFET Transistor

2SK2080

DESCRIPTION

- Drain Current I_D= 15A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 500V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

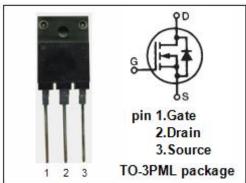
- · Switching regulators
- UPS
- DC-DC Converters
- · General purpose power amplifier

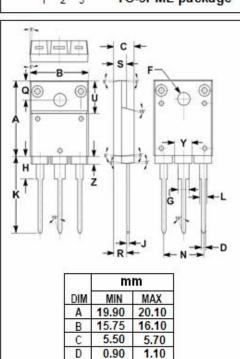
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25℃	15	Α
I _{D(puls)}	Pulsed Drain Current	40	Α
P _{tot}	Total Dissipation@T _C =25℃	80	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.56	°C/W





DIM	MIN	MAX
Α	19.90	20.10
В	15.75	16.10
С	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
Н	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
N	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10



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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 8A			0.55	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0			500	μA
V _{SD}	Diode Forward on-Voltage	I _F = 8A ;V _{GS} = 0			1.5	V



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